What is claimed is:

1. A compound of Formula I or a pharmaceutically acceptable salt thereof

$$R^{1}-A \xrightarrow{C} N \xrightarrow{R^{2} R^{3}} Z-B$$

$$R^{6} \xrightarrow{R^{5} R^{4}} I$$

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wherein

 R^1 is selected from the group consisting of pyridinyl, 3-quinolinyl, thienyl, furanyl, C_{3-6} cycloalkyl and phenyl optionally substituted with substituent independently selected from the group consisting of halogen, C_{1-4} alkyl, C_{1-4} alkoxy, trifluoromethyl, trifluoromethoxy and nitro;

A is -CH=CH- or -(CH₂)_n-;

 R^2 is C_{1-4} alkyl, CF_3 or hydroxymethyl;

R³, R⁴, R⁵ and R⁶ each are independently hydrogen or fluoro;

Z is oxygen or $-NR^7(CH_2)_{m}$ -;

15 n is an integer of 0, 1, 2 or 3;

m is an integer of 0 or 1;

R⁷ is hydrogen or C₁₋₄ alkyl; and

B is pyridinyl, pyrimidinyl or pyrazinyl optionally substituted with a subsituent selected from the group consisting of C_{1-4} alkyl, halogen, C_{1-4} alkoxy and trifluoromethyl.

2. The compound of claim 1 having the Formula Ic or a pharmaceutically acceptable salt thereof

$$R^1$$
 R^2
 R^3
 $Z-B$
 R^4
 R^5

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wherein

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R^1 is selected from the group consisting of pyridinyl, 3-quinolinyl, thienyl, furanyl, C_{3-6} cycloalkyl and phenyl optionally substituted with substituent independently selected from the group consisting of halogen, C_{1-4} alkyl, C_{1-4} alkoxy, trifluoromethyl, trifluoromethoxy and nitro;
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A is -CH=CH- or -(CH₂)_n-;

R² is methyl or hydroxymethyl;

R³, R⁴, R⁵ and R⁶ each are independently hydrogen or fluoro;

Z is oxygen or -NR⁷(CH₂)_m-;

n is an integer of 0, 1, 2 or 3;

10 m is an integer of 0 or 1; R^7 is hydrogen or C_{1-4} alkyl; and

B is pyridinyl, pyrimidinyl or pyrazinyl optionally substituted with a subsituent selected from the group consisting of C_{1-4} alkyl, halogen, C_{1-4} alkoxy and trifluoromethyl.

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- 3. The compound of claim 1 selected from the group consisting of:

 (S)-3-(2-fluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;

 (S)-3-(3-fluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;

 (S)-3-(4-fluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;

 (S)-3-(2,3-difluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;

 (S)-3-(2,4-difluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(2,5-difluoro-phenyl)-N- $\{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl\}$ -
- 25 acrylamide;
 - (S)-3-(2,6-difluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(3,4-difluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;
- 30 (S)-3-(3,5-difluoro-phenyl)-N-{1-[3-(pyridin-2-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(2-fluoro-phenyl)-N- $\{1$ -[3-(pyridin-3-yloxy)-phenyl]-ethyl $\}$ -acrylamide;

- (S)-3-(3-fluoro-phenyl)-N-{1-[3-(pyridin-3-yloxy)-phenyl]-ethyl}-acrylamide;
- (S)-3-(4-fluoro-phenyl)-N-{1-[3-(pyridin-3-yloxy)-phenyl]-ethyl}-acrylamide;
- (S)-3-(2,3-difluoro-phenyl)-N-{1-[3-(pyridin-3-yloxy)-phenyl]-ethyl}-acrylamide
- (S)-3-(2,4-difluoro-phenyl)-N- $\{1-[3-(pyridin-3-yloxy)-phenyl]-ethyl\}-$
- 5 acrylamide;
 - (S)-3-(2,5-difluoro-phenyl)-N-{1-[3-(pyridin-3-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(3,4-difluoro-phenyl)-N-{1-[3-(pyridin-3-yloxy)-phenyl]-ethyl}-acrylamide;
- 10 (S)-3-(4-fluoro-phenyl)-N-{1-[3-(6-methyl-pyridin-3-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(2,4-difluoro-phenyl)-N-{1-[3-(6-methyl-pyridin-3-yloxy)-phenyl]-ethyl}-acrylamide;
- 15 acrylamide;
 - (*S*)-N-{1-[3-(6-methyl-pyridin-3-yloxy)-phenyl]-ethyl}-3-(2,4,5-trifluoro-phenyl)-acrylamide;
 - (S)-3-(2-fluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(3-fluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;
- 20 (S)-3-(4-fluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(2,3-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(2,4-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;
- 25 (S)-3-(2,6-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(2,5-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(3,4-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-
- 30 acrylamide;
 - (S)-3-(3,5-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-acrylamide;

- (S)-3-(2,4-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-propionamide;
- (S)-3-(3,4-difluoro-phenyl)-N-{1-[3-(pyridin-4-yloxy)-phenyl]-ethyl}-propionamide;
- 5 (S)-3-(2-fluoro-phenyl)-N-{1-[3-(pyrazin-2-yloxy)-phenyl]-ethyl}-acrylamide; (S)-3-(3-fluoro-phenyl)-N-{1-[3-(pyrazin-2-yloxy)-phenyl]-ethyl}-acrylamide; (S)-3-(4-fluoro-phenyl)-N-{1-[3-(pyrazin-2-yloxy)-phenyl]-ethyl}-acrylamide; (S)-3-(2,3-difluoro-phenyl)-N-{1-[3-(pyrazin-2-yloxy)-phenyl]-ethyl}-acrylamide;
- 10 (S)-3-(2,4-difluoro-phenyl)-N-{1-[3-(pyrazin-2-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(2,6-difluoro-phenyl)-N-{1-[3-(pyrazin-2-yloxy)-phenyl]-ethyl}-acrylamide;
 - (S)-3-(3,5-difluoro-phenyl)-N- $\{1-[3-(pyrazin-2-yloxy)-phenyl]-ethyl\}$ -
- 15 acrylamide;

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- (S)-3-(2,3-difluoro-phenyl)-N-{1-[3-(pyrimidin-2-yloxy)-phenyl]-ethyl}-acrylamide;
- (S)-3-(2,6-difluoro-phenyl)-N-{1-[3-(pyrimidin-2-yloxy)-phenyl]-ethyl}-acrylamide;
- 20 (S)-3-(2-fluoro-phenyl)-N-{1-[3-(pyrimidin-5-yloxy)-phenyl]-ethyl}-acrylamide; (S)-3-(3-fluoro-phenyl)-N-{1-[3-(pyrimidin-5-yloxy)-phenyl]-ethyl}-acrylamide; (S)-3-(4-fluoro-phenyl)-N-{1-[3-(pyrimidin-5-yloxy)-phenyl]-ethyl}-acrylamide; (S)-3-(2,4-difluoro-phenyl)-N-{1-[3-(pyrimidin-5-yloxy)-phenyl]-ethyl}-acrylamide;
- 25 (S)-N-[1-(3-benzylamino-phenyl)-ethyl]-3-(2-fluoro-phenyl)-acrylamide; (S)-N-[1-(3-benzylamino-phenyl)-ethyl]-3-phenyl-acrylamide; (S)-N-[1-(3-benzylamino-phenyl)-ethyl]-3-(2,4-difluoro-phenyl)-acrylamide; and (S)-N-[1-(3-benzylamino-phenyl)-ethyl]-3-(2,6-difluoro-phenyl)-acrylamide; or a pharmaceutically acceptable salt thereof.

4. A pharmaceutical composition for the treatment of disorders responsive to opening of KCNQ potassium channels comprising a therapeutically effective

amount of the compound of claim 1 in association with a pharmaceutically acceptable carrier, adjuvant or diluent.

- A method for the treatment of disorders responsive to opening of the
 KCNQ potassium channels in a mammal in need thereof, which comprises administering to said mammal a therapeutically effective amount of the compound of claim 1.
- 6. The method of claims 5 wherein said disorders are acute and chronic pain, migraine, neuropathic pain, bipolar disorders, convulsions, mania, epilepsy, anxiety, depression and neurodegenerative disorders.
 - 7. The method of claim 6 wherein said disorder is migraine.
- 15 8. The method of claim 6 wherein said disorder is neuropathic pain.